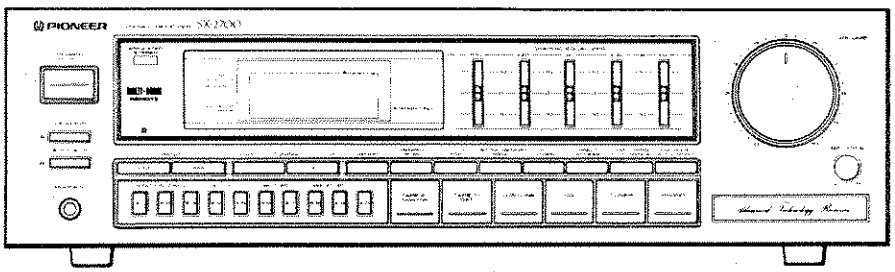
Operating Instructions

STEREO RECEIVER

SX-2700



Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT NOTICE
[For U.S. and Canadian models]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

[For Canadian model]

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

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PIONEER
The Art of Entertainment

IMPORTANT

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

SAFETY INSTRUCTIONS

READ INSTRUCTIONS – All the safety and operating instructions should be read before the appliance is operated.

RETAIN INSTRUCTIONS – The operating instructions should be retained for future reference.

HEED WARNING – All warnings on the appliance and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS – All operating and use instructions should be followed.

WATER AND MOISTURE – The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

LOCATION – The appliance should be installed in a stable location.

WALL OR CEILING MOUNTING – The appliance should not be mounted to a wall or ceiling.

VENTILATION – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

HEAT – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

POWER SOURCES – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

POWER-CORD PROTECTION – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

POLARIZATION – If your purchased product is provided with a polarized power plug, please read the following instructions. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

CLEANING – The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

POWER LINES – An outdoor antenna should be located away from power lines.

NONUSE PERIODS – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

OBJECT AND LIQUID ENTRY – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

DAMAGE REQUIRING SERVICE – The appliance should be serviced by a Pioneer authorized service center or qualified service personnel when:

- The power-supply cord or the plug has been damaged.
- Objects have fallen, or liquid has been spilled into the appliance.
- The appliance has been exposed to rain.
- The appliance does not appear to operate normally or exhibits a marked change in performance.
- The appliance has been dropped or the enclosure damaged.

SERVICING – The user should not attempt to service the appliance beyond that described in the operating instructions. For all other servicing, contact the nearest Pioneer authorized service center.

OUTDOOR ANTENNA GROUNDING – If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.
In the U.S.A., section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. A.

CART – An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

NEC – NATIONAL ELECTRIC CODE

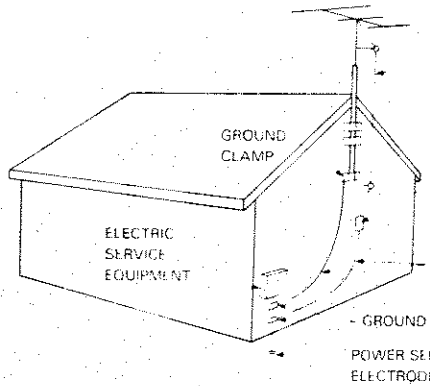

ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810 – 20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810 – 21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

FIG. A

BEFORE OPERATING, CHECK THE POSITION OF THESE SWITCHES

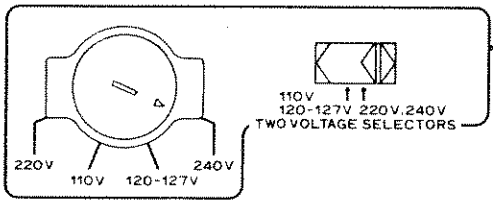
TWO VOLTAGE SELECTOR SWITCHES

Only multi-voltage models are provided with these switches. U.S., Canadian, European, U.K., and Australian models are not provided with these switches.

Main voltages in Saudi Arabia are 127 V and 220 V only. Never use this model with 110 V setting in Saudi Arabia.

The line voltage selector switches are on the rear panel. Before your model is shipped from the factory, these switches are set to the power requirements of the destination. Check that they are set properly before plugging the power cord into the AC outlet. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selector switches as follows.

1. Use a medium-size screwdriver.
2. First, insert a screwdriver in the groove of the voltage selector at the right, and adjust so that the tip of the groove points to the voltage value of your area.
3. Next, insert a screwdriver in the groove of the voltage selector at the left and adjust until the voltage is the same as at the right.



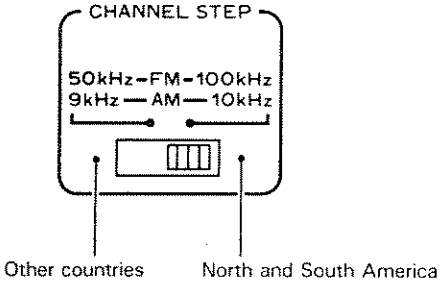
CHANNEL STEP SWITCH (Multi-voltage model only)

The unit has been factory preset to the channel allocation and de-emphasis value for the area in which it is to be sold. If these values are set incorrectly, the frequency display may stop at the wrong frequency, or sound may be distorted, resulting in an inability to reproduce reception signals at their proper sound quality. For this reason, be sure to confirm that the values are set correctly before first using the unit.

[100 kHz/10 kHz] position:
Set to this position for areas with an FM reception step of 100 kHz, AM 10 kHz.

[50 kHz/9 kHz] position:
Set to this position, for areas with an FM reception step of 50 kHz, AM 9 kHz.

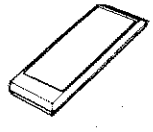
NOTE:
When unsure about the channel allocation and de-emphasis values for your area, consult your dealer for correct information.



CHECKING ACCESSORY ITEMS

FM T-type Antenna

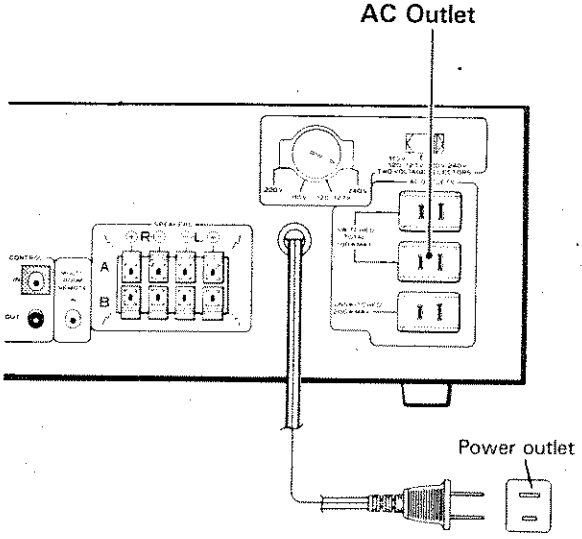
AM Loop Antenna



Remote control unit

Dry cell battery
(size "AAA" (R03/UM-4))

CONNECTING THE POWER CORD



AC OUTLETS (SWITCHED)

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W.

AC OUTLET (UNSWITHCED)

Power flows continually to this outlet, regardless of whether the receiver's POWER switch is ON or OFF. Electrical power consumption of the connected equipment should not exceed 200 W. The equipment should be disconnected by removing the mains plug from the wall socket when not in regular use, e.g. when on vacation.

NOTE:

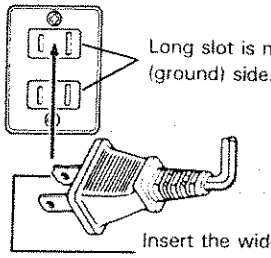
Do not connect appliances with high power consumption such as heaters, irons, or television sets to the AC OUTLETS, in order to avoid overheating or fire risk.

This can cause the receiver to malfunction.

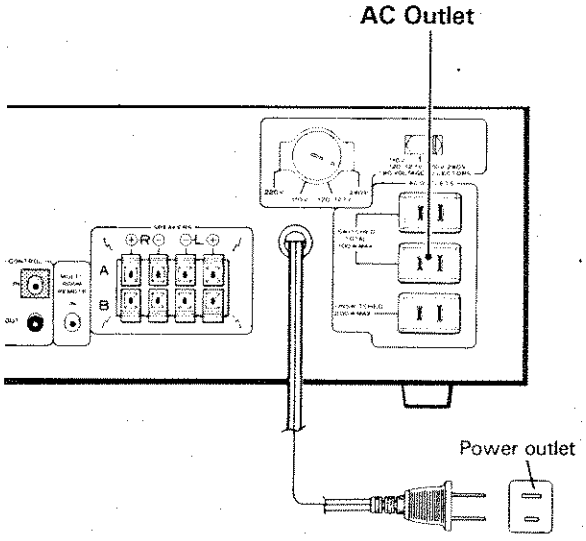
CONNECTING THE POWER CORD (For U.S.A. and Canadian models)

Household electrical outlets are provided with specific polarity, a live side and a neutral (ground) side. This unit utilizes such polarity in order to improve sound quality. As shown in the illustration, be sure to insert the power plug so that its blades match the width of slots in the outlet.

Household electrical outlet.



CONNECTING THE POWER CORD



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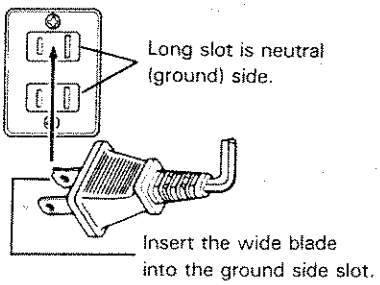
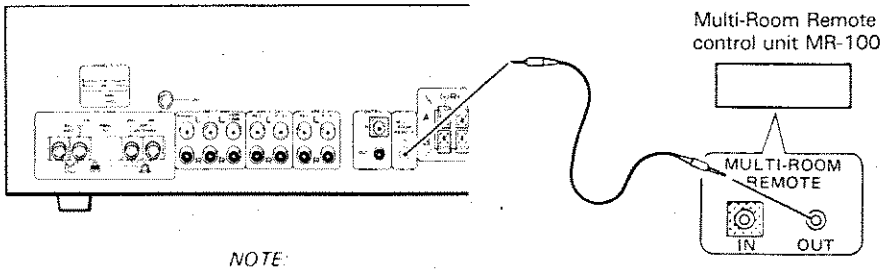
Household electrical outlet.



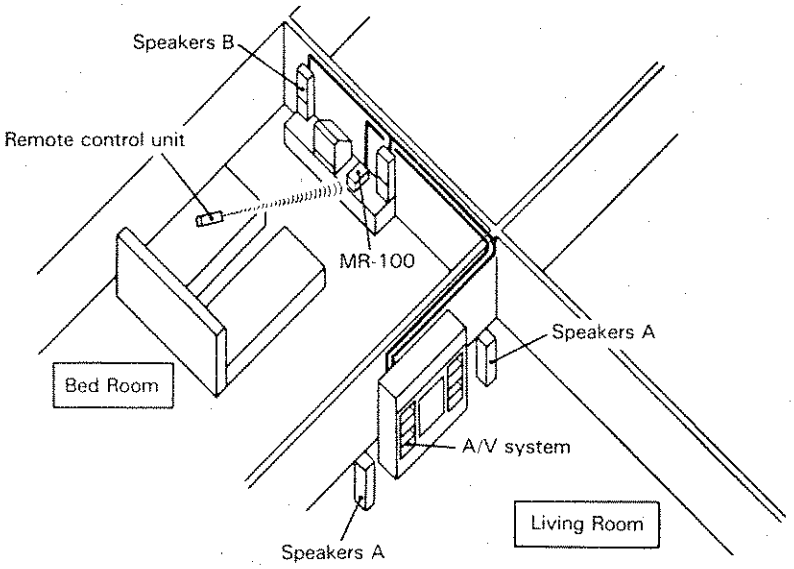
MULTI-ROOM REMOTE CONTROL ADAPTOR CONNECTION



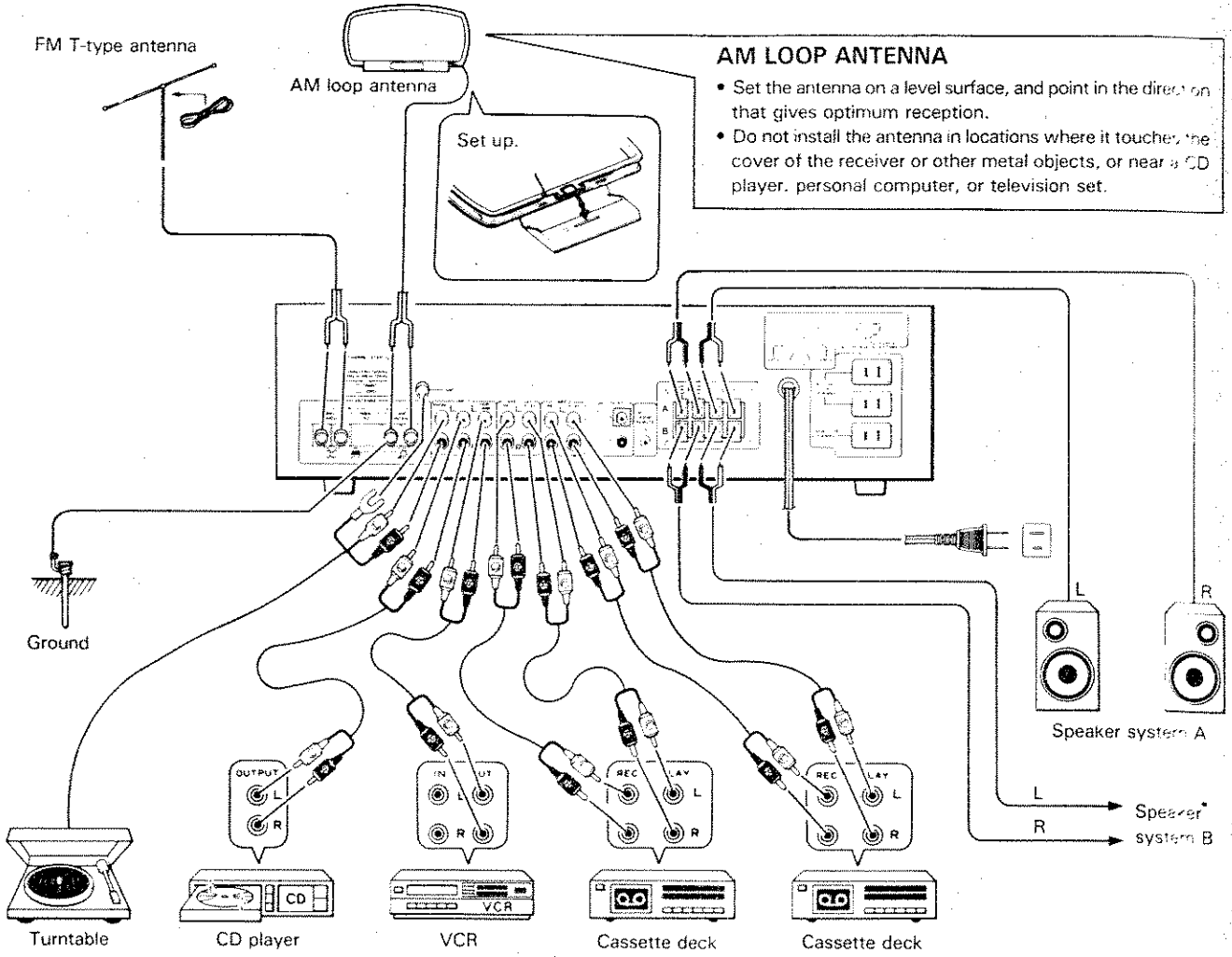
• For details, see operating instructions for multi-room remote control unit MR-100.

NOTE:
Be careful not to make the wrong connectios for CONTROL IN/OUT (black) and MULTI-ROOM REMOTE IN (green).

[Set-up example]



CONNECTIONS


FM T-type antenna
AM loop antenna
Set up.
AM LOOP ANTENNA
• Set the antenna on a level surface, and point in the direction that gives optimum reception.
• Do not install the antenna in locations where it touches the cover of the receiver or other metal objects, or near a CD player, personal computer, or television set.
Ground
L
R
Speaker system A
L
R
Speaker system B
Turntable
CD player
VCR
Cassette deck
Cassette deck

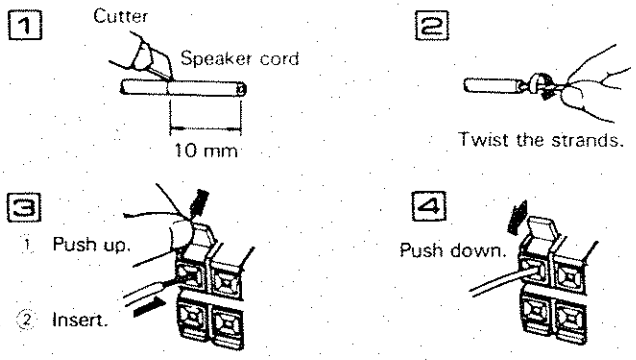
Antenna ground

Although grounding is not necessary for reception it is recommended for protection against damage from lightning if an outdoor FM antenna is used. Grounding is recommended as well, to help reduce noise and hum.

NOTE:

Never make the ground connection to a gas pipe as sparks could cause the gas to ignite.

Connecting the speaker cords



Connecting the input/output cords

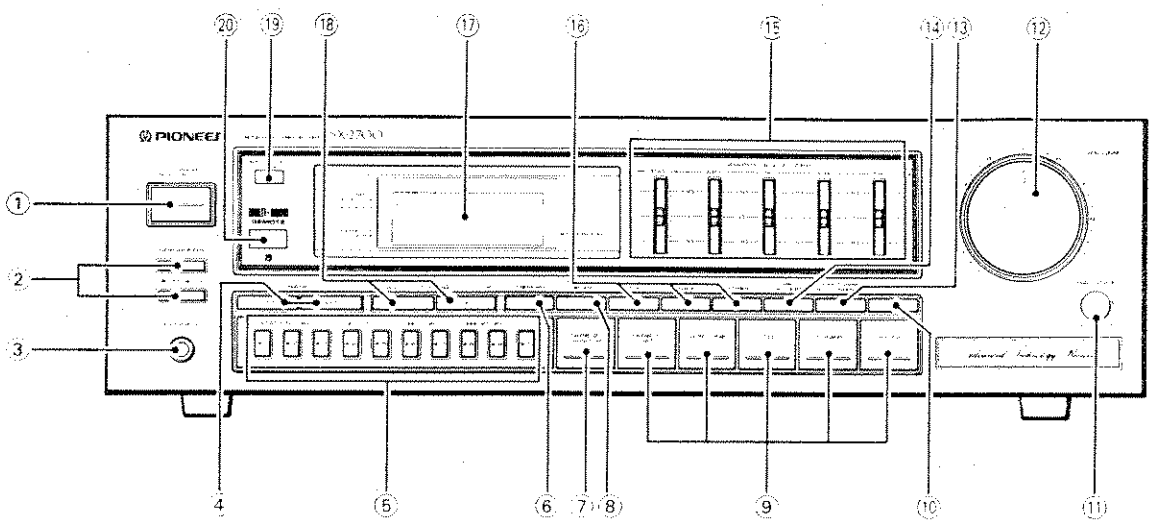
When another stereo component (purchased separately is connected, note the following instructions.

- Connect the plugs properly. Faulty connections can cause noise and also breakdowns and failures.
- The white terminal is for left channel and the red terminal is for the right channel.

NOTE ABOUT SPEAKER CONNECTIONS

- Speaker systems used should have an impedance of between 8Ω and 16Ω.
- Be sure that connections are secure. Check to make sure that wires do not protrude from their terminals.
- Do not allow the speaker cords to become shorted. Damage may result to your unit.
- Do not attempt to simultaneously connect two sets of speakers to a single side (A or B). When using two sets of speakers, connect one set to side A and one set to side B.

FRONT PANEL FACILITIES



① POWER (STANDBY/ON) switch

- The accessory remote control unit can also be used to operate STANDBY/ON and SLEEP function of this switch.
- The POWER switch selects the transformer secondary even in STANDBY position. The unit circuitry will work as long as the power cord is connected to a wall socket.
- When not using the unit for a long period, disconnected the power cord.

NOTE:
When the power is initially turned ON, muting will be applied to prevent sound from being output for about 5 seconds.

② SPEAKERS switches (■ OFF, ▬ ON)

These are used to select the speaker through which you wish to listen.
A: When the speakers connected to A terminals are in use.
B: When the speakers connected to B terminals are in use.
- Turn both A and B speakers to OFF position when only the HEADPHONES are in use.

NOTE:
No sound will be heard through the speakers when both A and B switches are depressed if only one set of speakers has been connected to either A or B SPEAKERS terminals.

③ PHONES jack

Connect the plug on your headphones to this jack. To listen to a program through the headphones, set both SPEAKERS A and B switches to the OFF position.

④ BAND Selector switches

These switches are used to select either AM or FM reception.
AM: Push this switch for AM reception.
FM: Push this switch for FM reception.

⑤ STATION CALL switches

These switches are used to preset and recall desired broadcasting stations.

⑥ MEMORY switch

When the unit is in the frequency display mode, pressing this switch will result in the memorization of the current broadcast band, reception frequency, and FM AUTO/MONO mode.
This switch is also used to input custom memory names (see page 13).

⑦ TAPE 2 MONITOR switch

Press when listening to tape playback with the cassette deck 2.

⑧ SCAN switch

This switch is used for both station memory scan and custom memory scan.

⑨ Function switches

Use to select playback source.
[TAPE 1 /DAT] — Press when listening to tape playback with the cassette deck 1 or digital audio tape deck.
[VCR/LINE] — Press when listening to programs from a component connected to the VCR/LINE terminals.
[CD] — Press when listening to compact disc playback with a CD player.
[TUNER] — Press when listening to AM or FM broadcasts with a tuner.
[PHONO] — Press when listening to record playback on a turntable.

⑩ FM MODE AUTO/MONO selector switch

Use to select the auto stereo mode or monaural mode when listening to FM broadcasts. The monaural mode has been selected when the FM MONO indicator is lighted.
Auto stereo mode:
Normally leave in this mode for reception. When a stereo FM broadcast is received, it will be automatically reproduced in stereo sound.
Monaural mode:
When receiving distant stations or stations with weak broadcast signals, the input signal may be weak, thus resulting in increased noise during FM stereo broadcasts. In this event, setting the receiver to the monaural mode will reduce the noise. In this case, however, FM stereo broadcasts will be reproduced in monaural sound.

NOTE:
This switch has no effect on reception of AM broadcasts.

⑪ BALANCE control

Should normally be left in the center position. Adjust balance if the sound is louder from one of the speakers. If the right side is louder, turn toward the L position and if the left side is louder, turn toward the R position.

⑫ VOLUME control

Use to adjust volume level.

⑬ FM TUNING AUTO/MANUAL switch

Works during FM reception.
Use this switch to select either the AUTO mode or the MANUAL mode. When the "AUTO" indicator is lit, the receiver is in the AUTO mode (see page 10).

⑭ DIRECT ACCESS tuning switch

When this switch is pressed, the STATION CALL switches function as ten-key number switches for direct input of the desired reception frequency. Press again to cancel this mode.
If the input station falls outside of the receiver's tuning range, the display section will display a message: "UPPER" if the frequency is too high and "LOWER" if it is too low (see page 11).

⑮ GRAPHIC EQUALIZER controls

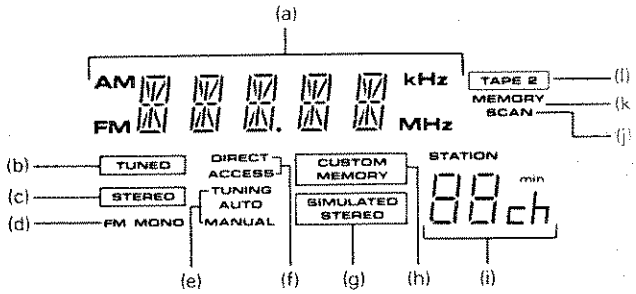
The equalizer is divided into five frequency ranges (100 Hz, 330 Hz, 1 kHz, 3.3 kHz, 10 kHz) to tailor music to the individual taste of the listener.

⑯ CUSTOM MEMORY switches

Stations can be assigned to STATION CALL switches according to the genre of material broadcast (ROCK, POP, OTHER). You can recall a particular genre, and scan all the stations of that genre with Memory Scan unit you reach the desired one.

⑰ OPERATION DISPLAY panel

(a) Indicates the function or frequency by the function switches.
(b) TUNED indicator
(c) FM STEREO indicator
(d) FM MONO indicator
(e) TUNING AUTO/MANUAL indicator
(f) DIRECT ACCESS tuning indicator
(g) SIMULATED STEREO indicator
(h) CUSTOM MEMORY indicator
(i) Indicates channel, STATION CALL number or sleep time.
(j) SCAN indicator
(k) MEMORY indicator
(l) TAPE 2 monitor indicator.



⑱ TUNING switches (DOWN, UP)

UP: The FM or AM band is scanned in the direction of increasing frequency.
DOWN: The opposite operation to that of the UP switch takes place

⑲ SIMULATED STEREO switch

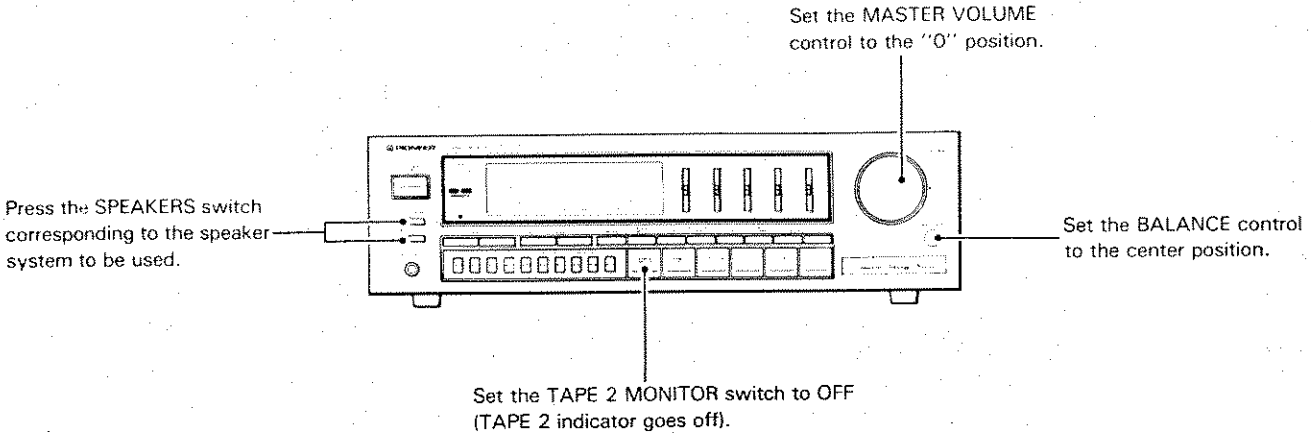
This turns monaural signals into simulated stereo sound. Use this when you wish to experience the sense of stereo presence with AM broadcasts, VCR or other monaural signal sources.

NOTE:
This function can also be used with stereo sources, but it will result in a different sound from the normal stereo sound.

⑳ Remote sensor window

SETTING THE UNIT PRIOR TO OPERATION

• Before operating the unit, be sure to set it as shown below.


Set the MASTER VOLUME control to the "0" position.
Press the SPEAKERS switch corresponding to the speaker system to be used.
Set the BALANCE control to the center position.
Set the TAPE 2 MONITOR switch to OFF (TAPE 2 indicator goes off).

GRAPHIC EQUALIZER CONTROLS

The advantage of the GRAPHIC EQUALIZER over conventional tone controls is that with the five controls of the GRAPHIC EQUALIZER it is possible to control five different narrow, distinct sections of the audio band. With conventional tone controls a setting for a bass or treble boost or cut will also affect the lower or upper mid frequencies. The frequency bands controlled by the five slide controls have been chosen to yield the maximum possible control action within the audio spectrum.

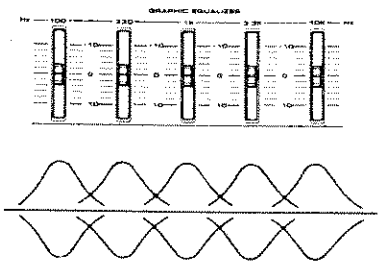
100 Hz: The 100 Hz control is very useful in enhancing low bass notes as in organ music.

330 Hz: The 330 Hz control will allow you to vary the upper bass frequencies.

1 kHz: The 1 kHz control is the presence control and can be used very effectively to emphasize, or deemphasize vocalists.

3.3 kHz: The 3.3 kHz control will add brilliance and clarity to brass instruments and violins.

10 kHz: The 10 kHz control can be used to make up for missing high frequencies absorbed by the environment and to add a natural crispness to music.



Emphasize frequency range.

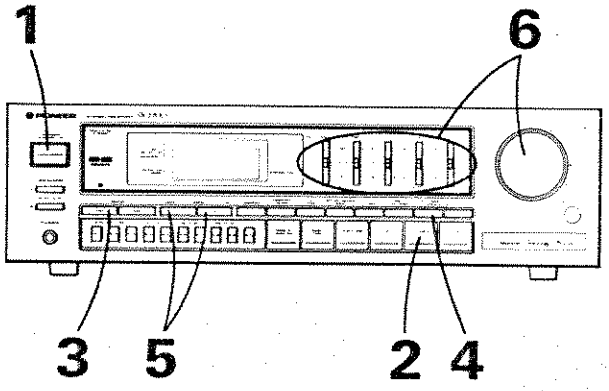
De-emphasize frequency range.

LISTENING TO THE BROADCAST

- Check that all terminals are properly connected before switching on the unit.
- Be sure to turn the TAPE 2 MONITOR switch OFF when listening to AM or FM broadcasts.

AUTO TUNING (FM reception)

The electronic tuning circuit inside the unit will search for the station.



1. Turn on the POWER switch of the unit.
2. Press the TUNER switch of the function switches.
3. Set the BAND selector switches for FM reception.
4. Press the FM TUNING AUTO/MANUAL switch to establish the AUTO tuning mode (the AUTO indicator lights).
5. Press the TUNING switches "UP + " or "DOWN - " for a higher or lower frequency as desired.

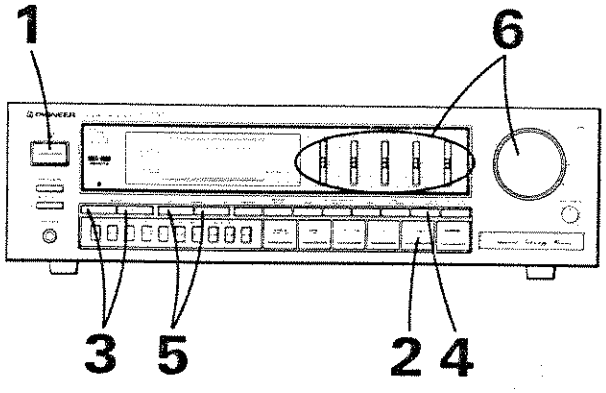
   The frequency will change rapidly during scanning. The AUTO TUNING will stop automatically when the station is located and the TUNED indicator will light up.

NOTE:

When the AUTO TUNING is in use, reception may not be possible over long distances or when signals are weak. At these times manual tuning is recommended.

6. Adjust the volume with the VOLUME control and the tone with the GRAPHIC EQUALIZER controls.

MANUAL TUNING (FM/AM reception)



1. Turn on the POWER switch of the unit.
2. Press the TUNER switch of the function switches.
3. Select your desired broadcasting band using the BAND selector switches.
4. Press the FM TUNING AUTO/MANUAL switch to establish the MANUAL tuning mode (the AUTO indicator goes off) during FM reception.
5. Use the TUNING switches to locate the frequency of the desired station.

   For step-by-step searching, press the TUNING switch once and release it immediately. For continuous rapid scanning keep the TUNING switch pressed. The TUNED indicator will light up when the station is tuned in best.

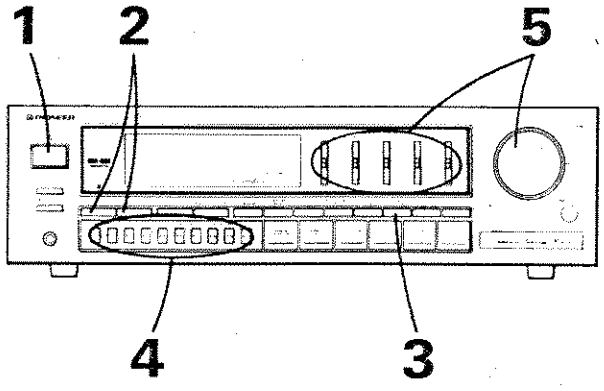
NOTE:

The TUNED indicator will not function for broadcasts received over long distances or when signals are weak.

6. Adjust the volume with the VOLUME control and the tone with the GRAPHIC EQUALIZER controls.

DIRECT ACCESS TUNING

LISTENING TO BROADCASTS USING DIRECT ACCESS TUNING



When you know the frequency of the desired station, the frequency can be input directly using the STATION CALL (number) switches in the following way:

1. Press the POWER switch to the ON position.

NOTE:
Be sure to turn the TAPE 2 MONITOR switch OFF when listening to AM or FM broadcasts.

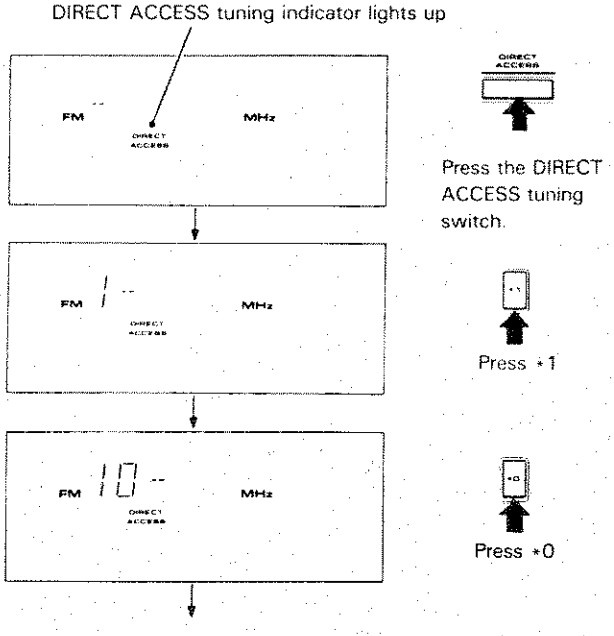
2. Select either FM or AM using the BAND selector switch.

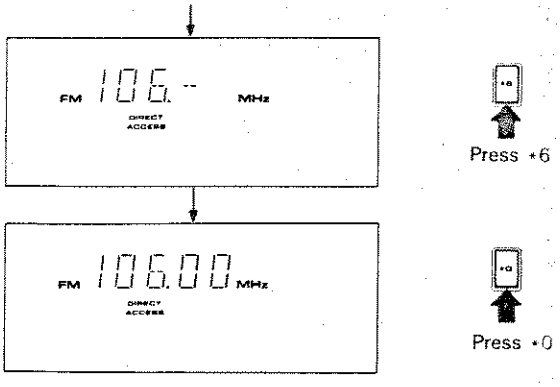
3. Press the DIRECT ACCESS tuning switch.

- In the Direct Access tuning mode, the DIRECT ACCESS tuning indicator will light up.

4. Input the desired station frequency using the STATION CALL switches.

Example 1: To receive FM 106.00 MHz





Once the station frequency has been input, the receiver tunes in that frequency. If the input frequency falls below the lower or higher limit of the receiver's receivable frequency range (FM: 87.5 MHz — 108 MHz; AM: 530 kHz — 1,700 kHz (10 kHz step), 531 kHz — 1,602 kHz (9 kHz step) "LOWER" or "UPPER" is displayed, indicating that the frequency which has been input cannot be tuned in.

5. Adjust the sound volume and tone as desired.

To cancel frequency input

Direct access is canceled when the DIRECT ACCESS tuning switch is pressed again.
Under the following conditions direct access is canceled and the unit returns to the condition in effect before direct access was selected. ① If there is no key input for about five seconds after the DIRECT ACCESS tuning switch was pressed. ② If more than about eight seconds elapse between number input.

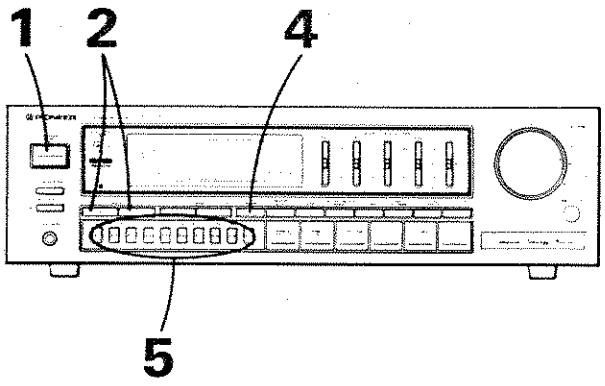
Notes regarding direct access tuning (100 kHz step only)

- There is no need to input the last digit "0" of the desired station frequency.

PRESET TUNING

FREQUENCY PRESETTING

Allows three stations per STATION CALL switch (press once, twice, or three times to select).



1. Press the POWER switch to the ON position.

NOTE:
Be sure to turn the TAPE 2 MONITOR switch OFF when listening to AM or FM broadcasts.

2. Set the BAND selector to either FM or AM.

3. Tune in the desired station.

- See the section "DIRECT ACCESS TUNING" for information on reception using the Direct Access Tuning mode.
- See the section "AUTO TUNING" for information on reception using the Auto Tuning mode.
- See the section "MANUAL TUNING" for information on reception using the Manual Tuning mode.
  In addition to station frequencies, the FM MODE (AUTO/MONO) can also be preset.

4. Press the MEMORY switch.

5. Press the STATION CALL switch into which you wish to preset the station.

- Press the STATION CALL switch while the MEMORY indicator is flashing (about 5 seconds).
- Use the STATION CALL switches (*1 – *9, *0) to select a preset channel. One press selects the 1 – 10 range, two presses 11 – 20, and three presses 21 – 30.

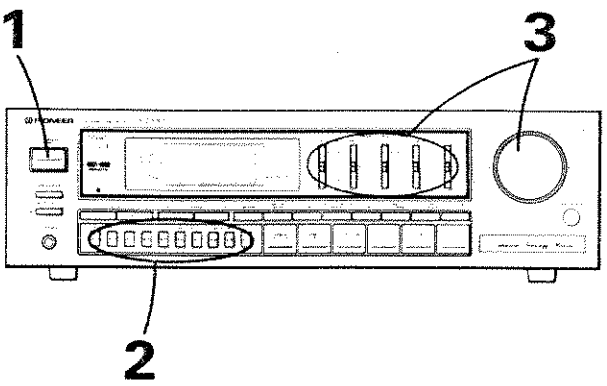
[Example] If you press key [*3] :
Once – STATION 3
Twice – STATION 13
Three times – STATION 23
Press a STATION CALL switch within two seconds.
When the display stops flashing, the station is preset.

NOTE:
Do not press switches, during display is flashing.

6. Repeat steps 2 to 5 to preset additional stations.

Total of 30 AM and FM stations may be preset. When you store a new preset, it takes the place of the previously stored station (if any).

LISTENING TO BROADCASTS USING PRESET TUNING



1. Press the POWER switch to the ON position.

2. Press the STATION CALL switch into which the desired station has been preset.

- When the Function switch is set to a function other than TUNER, it will switch to the TUNER function automatically if one of the STATION CALL switches is pressed.
  Tuning can be performed simply and accurately following the above procedure.

3. Adjust the volume and tone as desired.

NOTE:
The contents of the STATION CALL switch will be preserved for several days, even if the receiver power cord is unplugged.
If a preset station has been erased, preset it again.

Last station memory

The last received AM and FM stations remain stored despite FUNCTION and/or POWER switching. To recall, use BAND selector switches.

HOW TO USE THE CUSTOM MEMORY

Preset stations can be classified into as many as three different genres according to the material played by the station. Each of these three genres can be given a name, and Memory Scan of all the stations of a particular genre can be carried out.

The initial STATION CALL numbers are classified and named as follows.

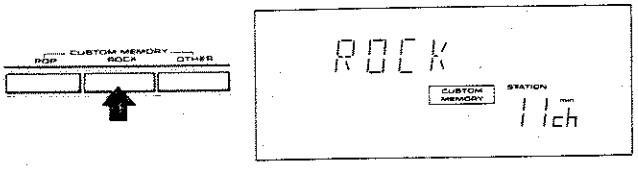
STATION CALL NO.	NAME
1 – 10	POP
11 – 20	ROCK
21 – 30	OTHER

It is recommended that you assign station call switches to appropriate stations to be preset.

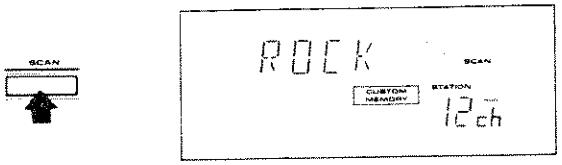
Memory Scan of stations with the same genre name

Memory Scan of all stations classified under the same genre name is possible.

1. Press the CUSTOM MEMORY switch to display the NAME you want to Memory Scan.



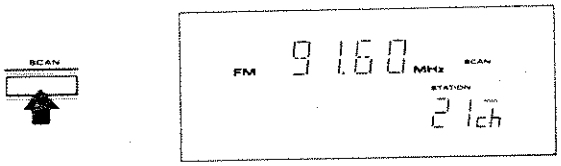
2. Press the SCAN switch.



- Memory Scan of stations classified under the name displayed will be carried out.
- Press the SCAN switch again to stop Memory Scan.

Memory Scan of all the station call numbers

You can recall all of the station call numbers by pressing the SCAN switch while the display shows the frequency indication.



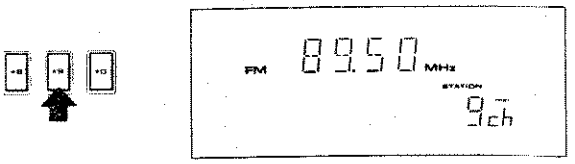
Press the SCAN switch again to stop Memory Scan.

Reclassification of a station under a different genre name

It is possible to change the genre classification of a station.

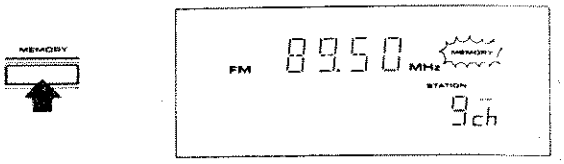
[Example] When you want to change the classification of the station assigned to STATION CALL number 9 from "POP" to "OTHER."

1. Press the STATION CALL 9 switch.



- The station assigned to STATION CALL number 9 will be recalled.

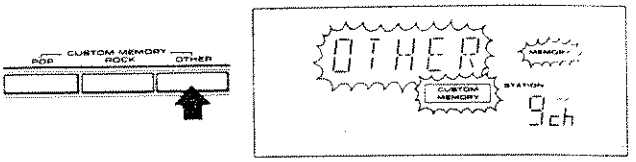
2. Press the MEMORY switch.



- The MEMORY indicator will flash.

3. Press the OTHER switch.

- The "OTHER" will flash.



- When the display stops flashing, the classification name of STATION CALL number 9 change to "OTHER."

NOTE:
Do not press switches, during display is flashing.

How to Cancel CUSTOM MEMORY

1. Press the STATION CALL number that you wish to cancel.

2. Press the MEMORY switch.

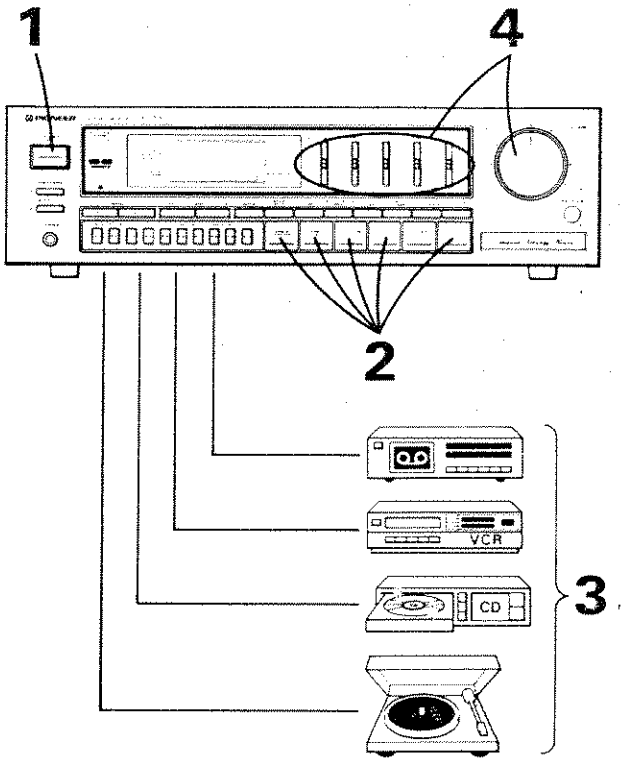
- The MEMORY indicator will flash.

3. While the MEMORY indicator is flashing, press twice on one of the three CUSTOM MEMORY switches.

- The display will show "TUNER." This completes cancellation.

NOTE:
Do not press switches while the display is flashing.

TO LISTEN TO OTHER MUSIC SOURCES



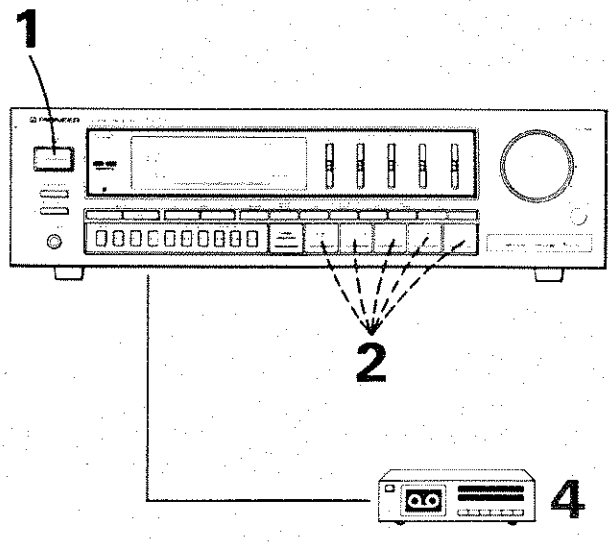
1. Turn on the POWER switch of the unit. Also turn on the power to the stereo components you wish to use.
2. Use the function switches and tape monitor switches as appropriate to select the desired program source.

	Function switch	TAPE 2 MONITOR switch
To listen to a tape on the cassette deck connected to TAPE 2 jacks	—	ON
To listen to the component connected to VCR/LINE jacks	VCR/LINE	OFF
To listen to a CD	CD	OFF
To listen to records	PHONO	OFF
To listen to TAPE 1/DAT	TAPE 1/DAT	OFF

3. Operate the appropriate stereo component to play back the program source.
4. Adjust the volume with the VOLUME control and the tone with the GRAPHIC EQUALIZER controls.

TAPE RECORDING

[For a cassette deck]



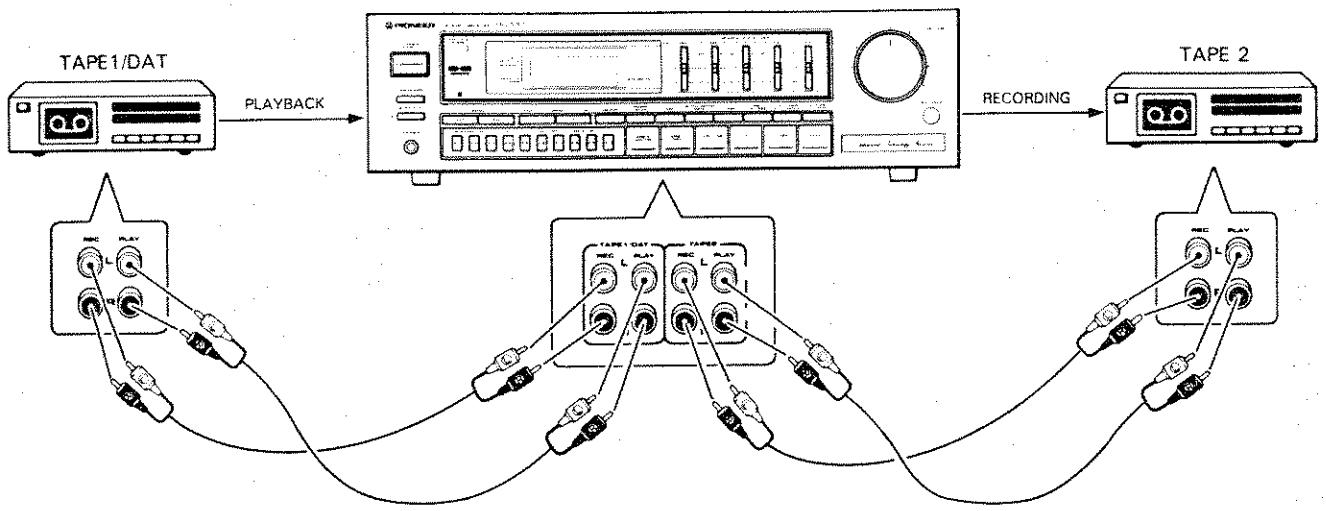
You can record an FM or AM broadcast, or a sound source connected to the VCR/LINE, CD, PHONO terminals.

1. Turn on the POWER switch of the unit.
2. Select the sound source to be recorded.
3. Turn on (or start) the sound source to be recorded.
4. Operate the cassette deck connected to the TAPE 1/DAT or TAPE 2 terminals.
   - For details of operating the cassette deck, read the operating instructions of the cassette deck.

COPYING TAPES

When two cassette decks are used, the sound played back on the deck connected to the TAPE 1 /DAT jacks can be recorded on the deck connected to the TAPE 2 jacks.

- To make a tape copy with contents identical to the original tape.
- To edit a recording of an FM broadcast in order to cut out unwanted commercials, recording only the desired material onto another tape.



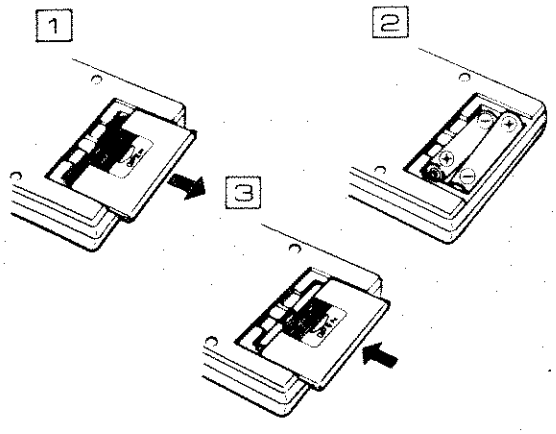
[When using two cassette decks]

1. **Load the playback tape (i.e. the pre-recorded tape) in the deck connected to the TAPE 1/DAT jacks, and the tape to be recorded in the other deck connected to the TAPE 2 jacks.**
2. **Press the TAPE 1/DAT switch.**
3. **Operate the cassette decks to begin copying.**
   Set the cassette deck with the original tape to the playback mode, and set the cassette deck with the non-recorded tape to the recording mode.

REMOTE CONTROL OPERATION

LOADING BATTERIES

1. **Open the battery compartment cover on the rear of the remote control unit. The cover should open easily if you slide it in the direction of the arrow while pressing on it with your thumb.**
2. **Take out the two supplied batteries size "AAA" (R03/UM-4), and insert them into the battery compartment in accordance with the indications in the compartment.**
3. **Close the cover of the battery compartment.**



Incorrect use of batteries may lead to leakage or rupture. Always be sure to follow these guidelines:

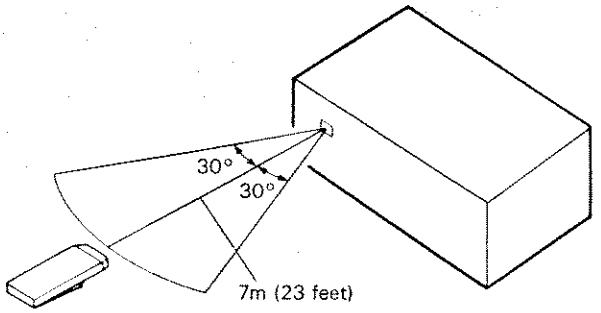
A.
Always insert batteries into the battery compartment correctly matching the positive (+) and negative (−) polarities, as indicated inside the compartment.

B.
Never mix new and used batteries.

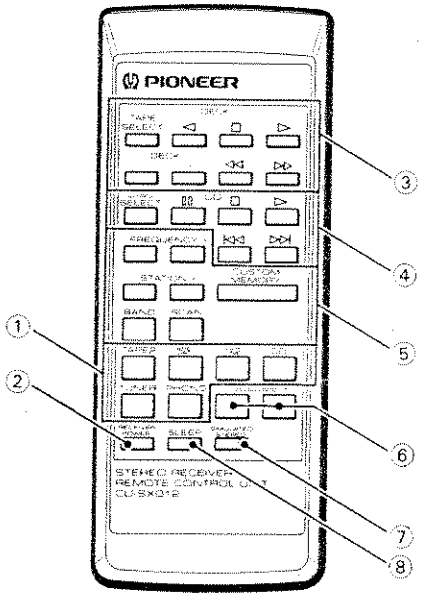
C.
Batteries of the same size may have different voltages, depending on their type. Do not mix different type of batteries.

REMOTE CONTROL RANGE

When operating the remote control unit, point the front of the unit at the front panel of the receiver. The remote control unit may be used within a range of about 7 meters (23 feet) from the remote sensor, within angles of up to about 30 degrees.



In addition to the present unit, the remote control unit can be used to operate other Pioneer components (cassette deck or CD) bearing the mark.



① Audio Function keys

TAPE 2 : Set function to TAPE 2.
TAPE 1/DAT : Set function to TAPE 1/DAT.
VCR/LINE : Set function to VCR/LINE.
CD : Set function to CD.
TUNER : Set function to TUNER.
PHONO : Set function to PHONO.

② POWER key

③ DECK operation keys

TAPE SELECT : Cassette selection. (When MULTI-CASSETTE CHANGER is used.)
DECK I : DECK I selection.
DECK II : DECK II selection.
► : Forward play (Receiver function switches to TAPE).
■ : Stop.
◄ : Reverse play (Receiver function switches to TAPE).
◄◄ : Rewind in forward mode, fast forward in reverse mode.
►► : Fast Forward in forward mode, rewind in reverse mode.

NOTE:
DECK I, II remote control keys may not operate depending on the cassette deck being used. Refer to your cassette deck's operating instructions for details.

④ CD operation keys

DISC SELECT : DISC selection.
II : Pause.
■ : Stop.
► : Play.
I◄◄, ►►I : Track search.

NOTE:
- *Note that the DISC SELECT key on the accessory remote control unit may not function, depending on the CD player used.*

⑤ TUNER keys

FREQUENCY keys
+ : TUNER (FM/AM) tuning up.
– : TUNER (FM/AM) tuning down.

STATION keys
- Before operation, memorize broadcast stations in the STATION CALL switches.

+ : Station change in order in the upward direction.
– : Station change in order in the downward direction.

BAND
Switches between AM and FM.

SCAN
Scans memorized stations.

CUSTOM MEMORY
For selection of one of three custom memory settings.

⑥ VOLUME + (UP)/– (DOWN) keys

⑦ SIMULATED STEREO on/off key

⑧ SLEEP key

Activates the SLEEP timer. The length changes in the following manner each time the key is pressed:

60 → 30 → 0 (OFF)

Unit: minutes

During SLEEP timer operation, SLEEP is displayed on the receiver OPERATION DISPLAY.

Refer to each operating instructions about the Cassette deck-, or CD-control.

HINTS FOR BETTER RECEPTION

EXTERNAL FM ANTENNA

The main advantage of FM over AM is the quality of the broadcast signal. In order to benefit fully from the high signal quality of FM broadcasts, it is recommended that a special-purpose FM antenna be installed. In weak signal areas, a multi-element (3 element, 5 element, 7 element, etc.) antenna should be used.

FM OUTDOOR ANTENNA CONNECTIONS

There are two ways of connecting the FM antenna to the antenna input terminals: with a 300Ω twin-lead feeder or with a 75Ω coaxial cable. To get the most from the receiver performance, a 75Ω coaxial cable is recommended since it is more immune than the twin-lead feeder to noise and interference from external sources. If an FM antenna has already been erected outdoors, connect it, referring to the figure.

GROUNDING

Grounding is recommended if reception of FM programs is impaired by noise. To ground, connect a thick polyvinyl insulated wire to the GND terminal and attach the other end to a metal water pipe or grounding bar or wind it around a copper plate and bury it.

NOTE:
Never connect a wire to a gas pipe for grounding since sparks may ignite the gas.

EXTERNAL AM ANTENNA

If it is not possible to obtain adequate AM reception even by changing the orientation of the AM loop antenna, a separate indoor antenna, or an outdoor antenna should be installed.

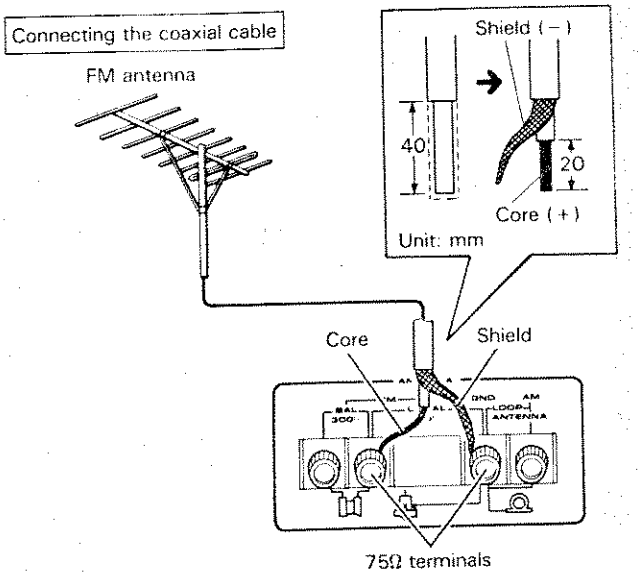
INDOOR AM ANTENNA

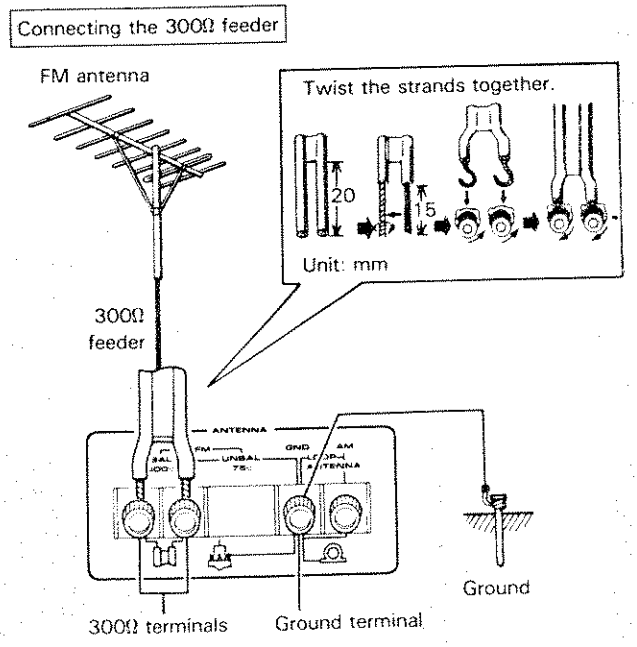
Use a vinyl insulated wire (5 — 6m) and connect one end to the AM antenna terminal and affix the other end to the wall or ceiling, as high as possible.

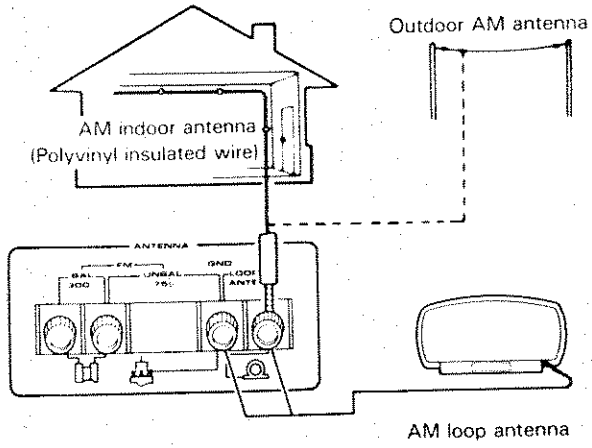
OUTDOOR AM ANTENNA

If reception quality is not improved sufficiently even when an indoor antenna is used, a vinyl insulated wire should be installed outside and fixed in place.

NOTE:
Do not detach the AM loop antenna when using an indoor or an outdoor AM antenna.







TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Cause	Remedy
Power does not come on even when POWER switch is pressed.	• Power cord is disconnected.	• Connect cord securely.
No sound is produced, even when Function switch is selected.	• VOLUME control is set to 0 (MIN). • Speaker connecting wires are disconnected from speaker terminals. • One or both of the input cords are disconnected. • TAPE 2 MONITOR switch is in the ON position.	• Turn the VOLUME control toward the right. • Connect wires to terminals securely. • Connect input cords securely. • Press the switch to OFF position.
Sound is produced from one speaker only.	• BALANCE control is set too far to one side or the other. • One of the speaker connecting wires or input cords is disconnected.	• Set BALANCE control to center position. • Connect wires and cords securely.
Noise is produced during reception of AM broadcasts when the power switch of other components is turned ON or OFF.	• AM loop antenna picks up electrical noise created by switch contacts.	• Place AM loop antenna as far away as possible from this and other components.
High noise level.	• Station has not been tuned in to correct frequency. • Antenna has not been connected or has become disconnected. **FM reception** • Accessory T-type antenna remains bundled up or it is not pointing in the right direction. • Weak broadcasting station signals. • Noise picked up from other equipment (or, in particular, from passing automobiles). • Multipath results when signals from broadcasting station entering antenna directly are mixed with signals which have been reflected by mountains or high buildings on their way to antenna. This results in distorted sound and noise. **AM reception** • AM antenna not pointing in right direction. • Weak broadcasting station signals. • Noise being picked up from other equipment (especially electrical appliances using motor or fluorescent lights.	• Tune the station correctly • Connect the antenna securely. • Stretch both ends of antenna taut and locate in direction yielding optimum reception. • Replace accessory T-type antenna with outdoor FM antenna. • Try altering direction and mounting position of antenna. If an outdoor antenna has been erected, place it as far as possible from passing traffic and replace connecting cable with 75 Ω coaxial cable. • Change AM antenna's direction and find a position where reception is improved. • Erect outdoor AM antenna or connect ground wire. • Stop using appliances generating noise or remove them from vicinity of stereo equipment.
No auto stop. (FM reception)	• Input signals are not strong enough.	• If a T-type antenna is used, change over to an outdoor antenna. • Perform manual tuning.

SPECIFICATIONS

Amplifier Section

Continuous Average Power Output is 65 watts* per channel, min., at 8 ohms from 20 Hertz to 20,000 Hertz with no more than 0.07 % total harmonic distortion.

Continuous Power Output (both channel driven)**
20 Hz – 20 kHz, T.H.D. 0.07 %, 8 Ω ..... 65 W + 65 W
Dynamic power output (with EIA test signal)
2/4/8 Ω ..... 145 W/130 W/90 W
Total Harmonic Distortion**
1 kHz, 65 W, 8 Ω ..... 0.01 %
Input (Sensitivity/ Impedance)
PHONO ..... 2.5 mV/47 kΩ
CD, VCR/LINE, TAPE 1/DAT, TAPE 2 ..... 150 mV/22 kΩ
Phono Overload Level (T.H.D. 0.01 %, 1,000 Hz)
PHONO ..... 130 mV
Output Level
TAPE REC ..... 150 mV/2.2 kΩ
Frequency Response
PHONO (RIAA Equalization) ..... 20 Hz to 20,000 Hz ±0.5 dB
CD, VCR/LINE, TAPE 1/DAT, TAPE 2 ... 10 Hz to 70,000 Hz $^{+0.5}_{-3.0}$ dB
Signal-to-Noise Ratio (IHF, short circuited, A network)
PHONO ..... 72 dB
CD, VCR/LINE, TAPE 1/DAT, TAPE 2 ..... 96 dB
Graphic Equalizer frequency band ..... 100 Hz, 330 Hz, 1 kHz, 3.3 kHz, 10 kHz, ±8 dB

FM Tuner Section

Frequency range ..... 87.5 MHz to 108 MHz
Usable Sensitivity ..... 10.8 dBf, IHF (0.95 μV/75 Ω)
50 dB Quieting Sensitivity
MONO ..... 15.3 dBf (1.6 μV/75 Ω)
STEREO ..... 37.1 dBf (19.5 μV/75 Ω)
Signal-to-Noise Ratio
MONO ..... 78 dB (at 85 dBf)
STEREO ..... 75 dB (at 85 dBf)
Distortion
STEREO ..... 0.3 % (1 kHz)
Alternate Channel Selectivity ..... 55 dB (400 kHz)
Stereo Separation ..... 35 dB (1 kHz)
Frequency Response ..... 30 Hz to 15 kHz (±1 dB)
Antenna Input ..... 300 Ω balanced, 75 Ω unbalanced

AM Tuner Section

Frequency range, when 10 kHz step ..... 530 kHz to 1,700 kHz
When 9 kHz step ..... 531 kHz to 1,602 kHz
Sensitivity
IHF, Loop antenna ..... 300 μV/m
Selectivity ..... 20 dB
Signal-to-Noise Ratio ..... 50 dB
Antenna ..... AM Loop Antenna

Miscellaneous

Power Requirements
U.S., Canadian model ..... AC 120 Volts, 60 Hz
Other destination models ..... ~AC 110 V, 120 V~127 V, 220 V, 240 V (switchable), 50/60 Hz
Power Consumption
U.S., Canadian models ..... 250 W (UL), 335 VA (CSA)
Other destination models ..... 395 W
Dimentions ..... 420 (W) X 120 (H) X 337 (D) mm
16-9/16(W) X 4-3/4 (H) X 13-9/32 (D) in
Weight (without package) ..... 6.8 kg (15 lb)

Furnished Parts

FM T-type Antenna 1
AM Loop Antenna 1
Remote control unit 1
Dry cell battery (size "AAA" (R03/UM-4)) 2
Operating Instructions 1

** Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier.*

*** Measured By Audio Spectrum Analyzer.*

NOTE.
Specifications and design subject to possible modification without notice due to improvements.

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

MAINTENANCE OF EXTERNAL SURFACES

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays and other chemicals on or near this unit, since these will corrode the surfaces.

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